

Serial No. 09/964,408

a concave optical lens that is disposed above the optical devices and guides incident light toward the optical devices; and

a lens member that is disposed between the optical devices and the concave optical lens,

wherein the lens member comprises a pair of projections for respectively guiding the incident light to the pair of optical devices, and wherein the pair of projections are respectively disposed above the optical devices and substantially in a space defined by a concavity of the concave optical lens.

2. (Amended) The solar sensor as in claim 1, wherein a first clearance between the concave optical lens and each of the pair of projections in the direction of travel of a vehicle is greater than a second clearance between the concave optical lens and the pair of projections in a direction perpendicular to the direction of travel on a horizontal plane.

4. (Amended) The solar sensor as in claim 1, wherein each of the pair of projections has a solid structure.

5. (Amended) The solar sensor as in claim 1, wherein each of the pair of projections has a hollow structure.


6. (Amended) The solar sensor as in claim 1, wherein a surface of the lens member facing the optical lens is coated with a screen film except on an area under the pair of optical projections.

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Please add the following new claims:

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7. (New) The solar sensor as in claim 1, wherein the housing includes a cantilever hook for fastening the housing to a vehicle panel.

 8. (New) The solar sensor as in claim 1, wherein the pair of projections is further for enabling a total output of the pair of optical devices to be substantially constant irrespective of a solar azimuth angle.

9. (New) The solar sensor as in claim 1, wherein the pair of projections is further for enabling a first total output of the pair of optical devices when light is received from the front side to be substantially equal to a second total output of the pair of optical devices when light is received from the right or left side.

10. (New) The solar sensor as in claim 1, wherein the optical devices are disposed substantially on a common plane.

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